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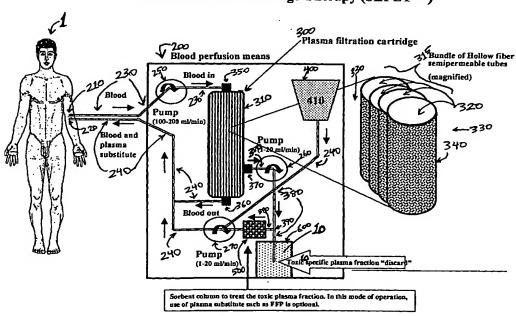
with international search report

(88) Date of publication of the international search report: 29 July 2004

[Continued on next page]

(54) Title: SELECTIVE PLASMA EXCHANGE THERAPY

Selective Plasma Exchange Therapy (SEPETTM)



(57) Abstract: Disclosed is a method for removing from a patient's blood a specific plasma fraction containing substances within a specific molecular weight range and a plasma purification apparatus by which the method can be accomplished.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25162

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : A61m 37/00; C02F 1/44; A01N 1/02						
US CL : 604/6.04, 4.01, 6.09, 6.16; 210/650; 435/2						
According to International Patent Classification (IPC) or to both national cla	iication and IPC					
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 604/6.04, 4.01, 6.09, 6.16; 210/650; 435/2; 604/5.01-5.04, 6.01; 210/646, 651, 321.6, 645-46						
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category * Citation of document, with indication, where appropriate,	of the relevant passages	Relevant to claim No.				
	Re. 31,688 E (POPOVICH et al.) 25 Sept. 1984, eniture document.					
Y US 4,668,399 A (DUGGINS) 26 May 1987, eniture document.	1					
Y US 5,783,085 A (FISCHEL) 21 July 1998, entire document.	Y US 5,783,085 A (FISCHEL) 21 July 1998, entire document.					
Y US 5,919,369 A (ASH) 06 July 1999, entire document.						
Y US 6,342,157 B1 (HOOD, III) 29 Jan. 2002, entire document.	US 6,342,157 B1 (HOOD, III) 29 Jan. 2002, entire document.					
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Date of the actual completion of the international search Date of m	nailing of the international search	1AY 2004				
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